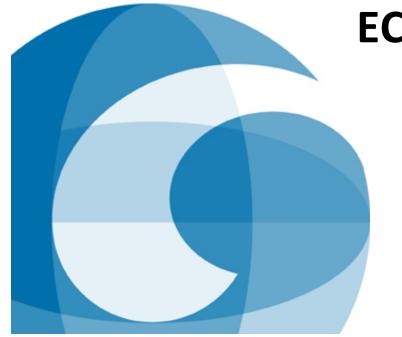




Giunti Labs A Giunti Group company

EC Mobile Research Projects



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Giunti Labs – EU Mobile Research



- Who we are
 - Giunti Labs: a brief background
- Mobile related research projects:
 - Key to nature: bio-diversity for education
 - Ensemble project: lifelong learning
 - CONTSENS: geo-located SCORM objects
 - **IRMOS**: QOS for mobile applications
 - iCoper: eLearning standards best practices





















Giunti Labs R&D



Our vision:

 Information and learning are the pillars of evolution. Giunti Labs R&D projects focus on the creation of distributed, scalable and personalized systems for ubiquitous access to information.

Our mission:

- To imagine and execute innovative technology based solutions for content
- To fulfil leading technical roles in EU R&D projects in the fields of ePublishing, eKnowledge and eLearning that focus on future technologies

















Giunti Labs R&D – Over 15 years of research



- In 1994 Giunti Group acquired Interactive Labs from Hay Group, one of Europe's first learning content design and production studios
- In 1997 Interactive Labs participates in FP4 projects focusing on the design of digital contents for new media
- In **2000** Interactive Labs opened Giunti Research to search and develop new generation Learning Content Management Solutions
- In 2001 and 2002 Interactive Labs coordinates its first European projects focused on mobile learning and semantic knowledge
- In 2003 Giunti Reseach and Interactive Labs merged in Giunti Interactive Labs (now Giunti Labs)
- Since 2003 Giunti Labs participated in several tens of research projects in FP4, FP5, FP6 and FP7 with more than 300 industrial and academic partners

















Research and Development



- Giunti Labs R&D is an international centre for applied research on all aspects of CONTENT and Technology Based Learning
- The result are innovative solutions to support:
- » LifeLong Learning
- » Mobile content management and delivery
- » Industrial maintenance
- » Healthcare training
- » Edutainment solutions for museums and public infrastructure
- » Bridging the gap between learning and business processes

















• EU Project Area: eContentPlus

Partners

University of Trieste (IT),T&B e Associati srl(IT), ETI Bioinformatics (NL), Biologische Bundesanstalt für Land und Forstwirtschaft (DE), Friedrich Alexander Univ. FIM Neues Lernen (DE), Real Jardín Botánico – Consejo Superior de Investigaciones Científicas (ES), Evolaris Research Lab (AT), K.U. Leuven, Centre For Usability Research (BE), Institute of Botany & Ecology, University of Tartu (EE), Slovenian Museum of Natural History (SI), Technical University of Cluj-Napoca (RO), Bikam Itd (BG), Natural History Museum, London (UK), Giunti Labs srl (IT)

Objectives

Improve the searchability and usability of existing digital contents for the emergence of a European educational service related to teaching and learning biodiversity.

- URL: http://www.keytonature.eu/
- Start: Sept 2007 End: Aug 2010
- Giunti's main role: content creation and tagging mechanism for palm-top devices
- Project Costs (Giunti Labs): 2.4 ML€ (109K€)





KeyToNature

Interactive e-tools for learning and teaching biodiversity















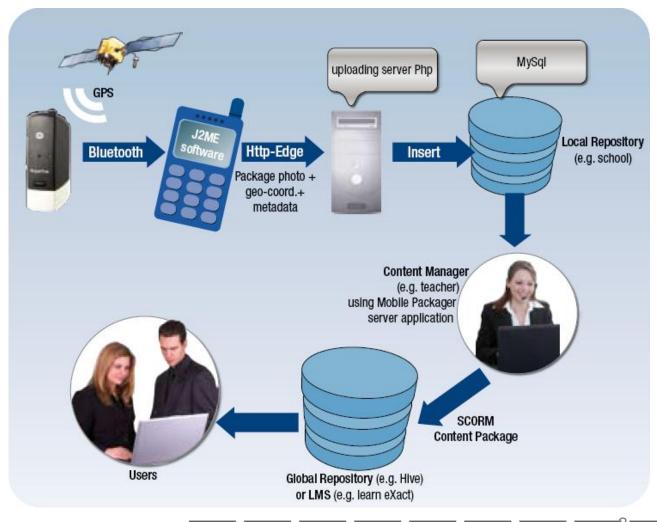




Mobile Packager: the flow of things









• EU Project Area: Leonardo da Vinci LifeLong Learning 2008, GRUNDTVIG (adult education)

Partners

University of Florence, Municipality of Prato, Giunti Labs, Yvelines District Council

Objectives

Mobile learning to foster the integration of firstand second-generation immigrants

- URL: http://www.ensembleproject.eu
- Start: November 2008 End: October 2010
- Giunti's main role:

Mobile contents design and production (mms, podcasting)

Project Costs (Giunti Labs): 500 K€ (83 K€)







European citizeNShip lifElong MoBile Learning















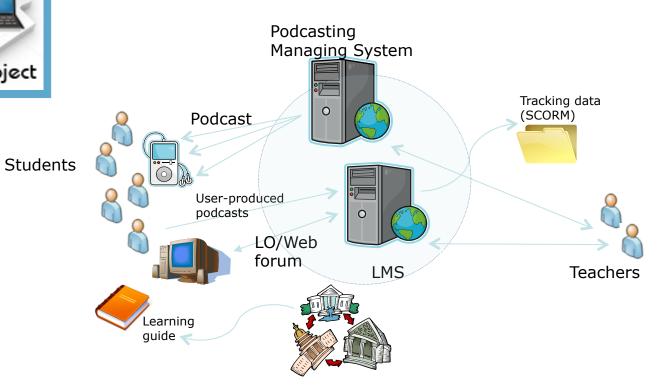




Ensemble: Podcast production









Ensemble: content production plan



Modules:



- A. European citizenship
- B. Intercultural education
- C. School life issues (to be parent of/to be son/students)
- D. Food, health, drugs and alcohol problems

Media	End user	Full event	Module	Unit	Objects to be produced
MMS	Adult	4 Modules	4 Didactical Units	5 MMS + MMS	4*4*(5+5)= 160 MMS
Podcast	Student	4 Modules	4 Didactical Units	5 Podcasts	4*4*5 = 80 Podcast + 2 LO (2 for each module)

<u>'Learning' objective</u>: to combine information and content/knowledge technologies in innovative environments (with particular attention to mobile and virtual reality) and services for life long learning













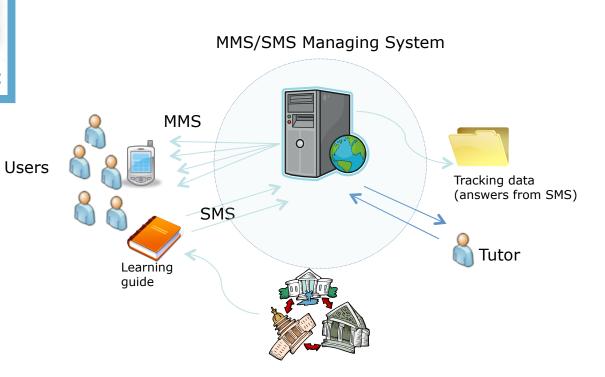




Ensemble: MMS production









• EU Project Area: Leonardo da Vinci

LLP2007 "Multilateral projects for development of innovation"

Partners

Ericsson Education Ireland (EI), European Consortium for the Learning Organization (BE), Plovdiv Univerity "Paisii Hidendarski" (BG), Corvinno Technology Transfer Center Ltd. (HU), Giunti Labs S.r.l. (IT), London Metropolitan University (UK)

Objectives

The aim of this project is to avail of the latest technological developments to support the development of innovative ICT-based content, services, pedagogies and practice for lifelong learning and to bring mobile learning to the next level.

• URL: http://www.ericsson.com/contsens

• Start: January 2008 End: December 2009

Giunti's main role

Use of context sensitive technologies in mobile and language learning and definition of the exploitation strategy.

• Project Costs: 520 K Euro





CONTSENS

Using wireless technologies for context sensitive education and training



















CONTSENS: geo-located content to mobile



- Multi Device Rendering
 - (Windows Mobile, J2ME, and Blackberry OS)
- Standard SCORM Content Packages Flexible Publishing
 - (Push, Pull, Link & Tracking)
- GPS, Wi-Fi/ RFID Location Detection
- Chat , Forum and other collaborative services
- Ericsson details:
 - Experia X1
 - Windows mobile















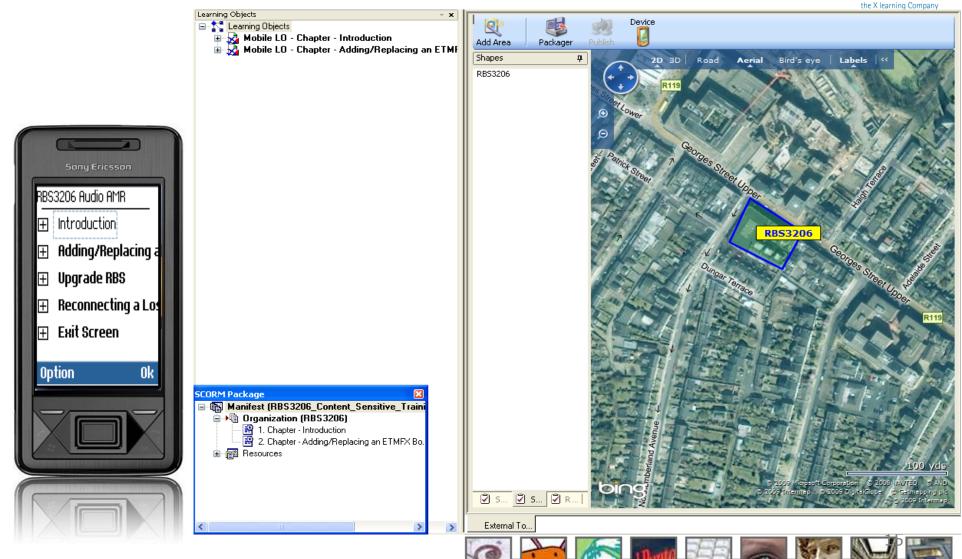






Geo tagging content (con't)





CONTSENS – findings (Ericsson)



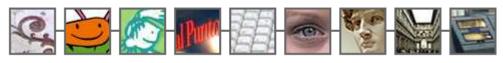
- Population: 38 users
- 97.37% Would like to continue using mobile learning.
- 89% would recommend mobile learning to others
- 76.31% found that the mobile device enhanced the learning experience
- 76.32% found the learning experience to be fun
- More info available at:
 - http://www.ericsson.com/ericsson/corpinfo/programs/ using wireless technologies for context sensitive educ ation_and_training/products.shtml



CONTSENS – what are they saying...



- Generic comments:
 - Very good. Good refresher if just about to perform a task not so familiar with. Be careful thought it shouldn't replace CPI. Eyes tired by the end thought even though only after 5-7 minutes. Maybe that's my age!
 - This is not a course This is a structured knowledge transfer for on the job activities – excellent.
- How did mobility enhance the learning experience?
 - It provides quick, relevant information when needed during field maintenance work, of wherever you are.
 - This course was a series of instructions on how to perform tasks: the instructions were clear and confidence boosting.



EU Project Area: IP project, VII FP

ICT-2007.1.2 "Service and Software Architectures, Infrastructures and Engineering"

Partners

Xyratex (UK), Universität Stuttgart (DE), Institute of Communication & Computer Systems National Technical , University of Athens (GR), Alcatel-Lucent Deutschland AG (DE), STIFTELSEN SINTEF (NO), University of Southampton (UK), Scuola Superiore Sant'Anna (IT), Telefonica (ES), Giunti Labs S.r.I. (IT), Grass Valley Germany GmbH (DE), Deutsche Thomson OHG (DE)

Objectives

Design, develop, integrate and validate a Service Oriented Infrastructure that enables a broad range of interactive real-time applications like interactive collaborative e-learning.

- URL: http://www.irmosproject.eu
- Start: February 2008 End: January 2011

Giunti's main role:

Outdoor mobile learning scenarios with real-time position tracking, educational virtual learning worlds

• Project Costs (Giunti Labs): 12.7 ML Euro (308K€)





IRMOS

Interactive Real-time Multimedia Applications on Service Oriented Infrastructures



















IRMOS – background info



- Mobile applications are increasingly popular
- mobility in eLearning is increasingly demanded
- Real time Quality Of Service is critical if we are to provide different types of users with a different level of service
- Examples scenarios:
 - Football match in Liverpool: a tourist agent wants to enable a pay-per-know location aware service
 - Queen Elisabeth visiting Paris: the Mayor wants to enable a service for elitist presentations
 - School trip in Paris: the school director wants to enable a service for outdoor edutainment















Storyboard





EU Project Area: eContentPlus (Best Practice Network)

Partners

Wirtschaftsuniversität Wien, UK Open University, University of Cyprus, University of Leicester, Open University of the Netherlands, University of Jyväskylä, imc, Tallinn University, Centre for Educational Technology, Chambre de Commerce et d'Industrie de Paris -HEC, Jozef Stefan Institute, NCSR Demokritos, Institut National des Télécommunications, University of Vienna, Universidad Carlos III de Madrid, AGH University of Science and Technology, Kaunas University of Technology, Knowledge Markets Consulting, Oslo University College, Synergetics nv, GiuntiLabs, KU Leuven, Umeå University, Department of Interactive Media and Learning, Humance.

Objectives

Best Practices addressing the exchange of competency models in a cross-cultural educational context, learning designs, federated search and harvesting, reuse of instructional models and content.

- URL: http://www.icoper.org
- Start: September 2008 End: February 2011
- Giunti's main role

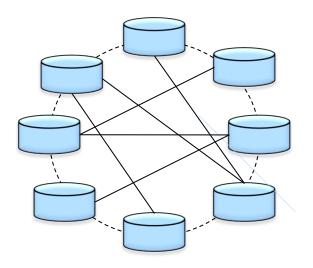
Infrastructure for the online training (PC, Mobile), Open Interfaces for searching/retrieval of digital contents (SQI, OKI, OAI)

• Project Costs (Giunti Labs): 4.8 ML€ (272 K€)



iCoper

Interoperable Content for Performance in a Competency-driven Society



















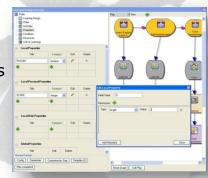
Giunti Labs R&D and the future





Advanced mobile learning for contextualized and personalized ubiquitous learning

Enhanced Learning Design to support latests pedagogical approaches for formal and informal learning





Virtual Reality

simulation to deliver an immersive user experience and trial the most diverse operative scenarios

T-Learning on iDTV

| Compared to the control of the con

Competency mangement: integration of LMS and HR systems to align competency development plans and learning





















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